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NOTICE OF ALLOWANCE AND FEE(S) DUE

23911 7590 0226/2008
CROWELL & MORING LLP
INTELLECTUAL PROPERTY GROUP
P.O. BOX 14300

WASHINGTON DC 20044-4300

EXAMINER
ULM, JOHN D

PAPER NUMBER

ART UNIT

DATE MAILED: 02/26/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,209	12/01/2003	Jon Elliot Adler	100337.54075D2	9839

 ${\tt TITLE~OF~INVENTION: 12R~RECEPTOR~FUNCTIONAL~ASSAYS~THAT~IDENTIFY~POTENTIAL~BITTER~TASTE~MODULATORS}\\$

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$300	\$0	\$1020	05/27/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed of	or transmitting the ng the Patent, adva- nerwise in Block 1,	nce orders and notificati by (a) specifying a nev	ion of r	ON PEE (if require naintenance fees with spondence address;	ed). B II be i and/or	nailed to the current (b) indicating a sepa	correspor	completed where ndence address as E ADDRESS" for
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nonprovisional	YES	\$720	\$300		\$0		\$1020		05/27/2008
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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CROWELL & MORING LLP			ULM, JOHN D		
	L PROPERTY GROUP		ART UNIT	PAPER NUMBER	
P.O. BOX 14300 WASHINGTON	, DC 20044-4300		1649 DATE MAILED: 02/26/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 436 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 436 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)		
10/724,209	ADLER, JON ELLIC	OT	
Examiner	Art Unit		
John D. Ulm	1649		

tive

The WALLING DATE or this communication appears on All claims being allowable, PROSECUTION ON THE MERRITS IS (OR RI herewith (or previously mailed), a Notice of Allowance (PTOL-85) or othe NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS, of the Office or upon petition by the applicant. See 37 CFR 1.313 and M	EMAINS) CLOSED in this application. If not included er appropriate communication will be mailed in due course. THIS . This application is subject to withdrawal from issue at the initia
1. This communication is responsive to the amendment filed 29 Nov	rember 2007.
The allowed claim(s) is/are <u>216-244</u>.	
3. Acknowledgment is made of a claim for foreign priority under 35 a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been in comments. In the comment of the c	received. received in Application No s have been received in this national stage application from the communication to file a reply complying with the requirements
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. N INFORMAL PATENT APPLICATION (PTO-152) which gives reas	lote the attached EXAMINER'S AMENDMENT or NOTICE OF
CORRECTED DRAWINGS (as "replacement sheets") must be su (a) including changes required by the Notice of Draftsperson's Pi 1) hereto or 2) to Paper No./Mail Date	atent Drawing Review (PTO-948) attached idment / Comment or in the Office action of should be written on the drawings in the front (not the back) of ler according to 37 CFR 1.121(d), BIOLOGICAL MATERIAL must be submitted. Note the
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	Notice of Informal Patent Application Interview Summary (PTO-413), Paper No./Mail Date Examiner's Amendment/Comment
Faper No./Mail Date Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Statement of Reasons for Allowance
	9. Other

/John D. Ulm/ Primary Examiner, Art Unit 1649 Application/Control Number: 10/724,209

Art Unit: 1649

DETAILED ACTION

Claims 216 to 244 are pending in the instant application. Claims 186 to 215 have been canceled and claims 216 to 244 have been added as requested by Applicant in the correspondence filed 29 November of 2007.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 29 November of 2007 has been entered.

EXAMINER'S AMENDMENT

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Robin L. Teskin on 14 February of 2008.

The application has been amended as follows:

Please amend claim 216 as follows:

Application/Control Number: 10/724,209

Art Unit: 1649

216. (Currently amended) A method for identifying a compound that putatively modulates or elicits bitter taste in a human subject comprising:

- (A) screening one or more compounds in an assay that screens for compounds that activate or modulate the activity of a T2R polypeptide that has a sequence that is at least 95% identical to the https://human.puppertide.in.of SEQ ID NO:4; and which T2R polypeptide specifically binds to at least one bitter ligand that binds to the human.puppertide.in.of SEQ ID NO:4; and
- (B) identifying at least one compound that results in the activation of said T2R polypeptide or which modulates the activity of said T2R polypeptide and wherein said human T2R polypeptide used in said screening method specifically binds to ligands that specifically bind to the human T2R polypeptide in SEQ ID NO:4.

Conclusion

Claims 216 to 244 are allowed and have been renumbered 1 to 29, respectively.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John D. Ulm whose telephone number is (571) 272-0880. The examiner can normally be reached on 9:00AM to 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Stucker can be reached on (571) 272-0911. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/724,209 Page 4

Art Unit: 1649

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/John D. Ulm/ Primary Examiner, Art Unit 1649